

## Appendix 2B. Table of Contents

Appendix 2B. Endangered Species Act Stormwater Design Checklist.....	2B-1
2B-1 Purpose and Use of the Checklist .....	2B-1
Endangered Species Act Stormwater Design Checklist Form.....	2B-3



## **Appendix 2B.**

### **Endangered Species Act**

### **Stormwater Design Checklist**

#### **2-B.1 Purpose and Use of the Checklist**

The Stormwater Design Checklist assists project designers in providing pertinent information about a project's stormwater treatment facilities to biologists responsible for preparing biological assessments required for consultation under Section 7 of the Endangered Species Act. The use of this checklist is necessary to aid in developing biological assessments, and to promote consistency in the content provided in the agency's biological assessments.

It is possible that the specific conditions of some projects may warrant modifying or adding certain checklist items. However, to maintain consistency in the type and amount of information collected and submitted for the environmental permitting process, the checklist should be modified only if necessary.



## Endangered Species Act Stormwater Design Checklist

Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

### General Project Information

1. Will work occur outside existing pavement or gravel shoulders? ☐ Yes ☐ No

If yes, describe the nature and extent of the work:

---

---

---

---

---

---

### Existing Impervious Surface and Stormwater Facilities (Preproject)

2. Is there any existing impervious surface within the project area? ☐ Yes ☐ No

If yes, for each threshold discharge area (TDA), identify the amount of existing impervious surface within the project limits: \_\_\_\_\_ (square feet, acres)

If no, go to #H9.

3. For each TDA, identify the total area of existing pollution generating impervious surface currently receiving runoff treatment: \_\_\_\_\_ (square feet, acres)

- ~~4. Will any existing impervious surface receive runoff treatment (i.e., retrofit)? ☐ Yes ☐ No~~

~~If yes, for each TDA, identify how much of the existing impervious surface will be retrofitted for runoff treatment \_\_\_\_\_ (square feet, acres), and the level(s) of treatment:~~

~~☐ Basic ☐ Enhanced ☐ Oil Control ☐ Phosphorous Control~~

~~54.~~ For each TDA, identify the total area of existing impervious surface currently receiving flow control: \_\_\_\_\_ (square feet, acres)

~~6.~~ Will any existing impervious surface receive flow control (i.e., retrofit)? ☐ Yes ☐ No

~~If yes, how much of the existing impervious surface in each TDA will be retrofitted for flow control? \_\_\_\_\_ (square feet, acres)~~

~~75.~~ Is any of the runoff from the existing impervious surface infiltrated? ☐ Yes ☐ No

If yes, what percentage of the runoff from the existing impervious surface in each TDA is infiltrated? \_\_\_\_\_ %.

How much of the runoff volume does this represent? \_\_\_\_\_ (acre-feet)

~~86.~~ Identify the type(s), location(s), footprint(s), and receiving area/water body for each runoff treatment and flow control BMP. If available, provide a map depicting TDA boundaries and BMP locations.

---

---

---

---

---

~~97.~~ Describe the nature of the stormwater conveyance (drainage) system (e.g., pipe, culvert, channel, ditch, swale, sheet flow). If available, provide a map of the system depicting TDA boundaries.

---

---

---

---

---

~~108.~~ Is off-site stormwater being treated/controlled by WSDOT stormwater facilities prior to initiation of the project? ☐ Yes ☐ No

If yes, will this stormwater continue to be treated/controlled to the same level? ☐ Yes ☐ No

If off-site stormwater will not continue to be treated/controlled to the same level, explain why not:

---

---

---

---

---

**New Impervious Surface, Retrofitted Existing Impervious Surface, and Stormwater Facilities (Proposed Project)**

**119.** Will the project create a net gain in impervious surface? ☐ Yes ☐ No

If *yes*, for each TDA, identify how much net-new impervious surface the project will create:  
\_\_\_\_\_ (square feet, acres)

If *no*, will the project result in a net decrease in impervious surface? ☐ Yes ☐ No

If *yes*, for each TDA, identify how much net loss will result:  
\_\_\_\_\_ (square feet, acres)

**120.** Will the project require runoff treatment? ☐ Yes ☐ No

If *yes*, for each TDA, identify the total area of new pollution generating impervious surface treated:

\_\_\_\_\_ (square feet, acres) and identify the level(s) of treatment required:

☐ *Basic* ☐ *Enhanced* ☐ *Oil Control* ☐ *Phosphorous Control*

**11. Will any existing pollution generating impervious surface be retrofitted for runoff treatment?**

☐ Yes ☐ No

If yes, for each TDA, identify how much of the existing pollution generating impervious surface will be retrofitted for runoff treatment \_\_\_\_\_ (square feet, acres), and the level(s) of treatment:

☐ *Basic* ☐ *Enhanced* ☐ *Oil Control* ☐ *Phosphorous Control*

**123.** Will the project require flow control? ☐ Yes ☐ No

If *yes*, for each TDA, identify the total area of new impervious surface to receive flow control: \_\_\_\_\_ (square feet, acres)

**13. Will any existing impervious surface be retrofitted for flow control?** ☐ Yes ☐ No

If yes, how much of the existing impervious surface in each TDA will be retrofitted for flow control? \_\_\_\_\_ (square feet, acres)

**14.** Will any of the runoff from the new impervious surface be infiltrated? ☐ Yes ☐ No

If *yes*, what percentage of the runoff from the new impervious surface in each TDA will be infiltrated? \_\_\_\_\_ %

How much of the runoff volume does this represent? \_\_\_\_\_ (acre-feet)

15. Are any of the project's TDAs exempt from the flow control requirement? ☐ Yes ☐ No

If yes, identify the exempt TDA(s):

---

---

---

---

If *no*, and the project is petitioning for an exemption, has a hydrologic analysis supporting the exemption been approved by Ecology? ☐ Yes ☐ No

If *yes*, provide a summary of the analysis as an attachment to this checklist.

If *no*, a hydrologic analysis justifying the exemption must be submitted to Ecology for approval, or flow control must be provided.

16. If applicable, identify the type(s), location(s), and footprint(s) for each runoff treatment and flow control BMP. If available, provide a map of depicting TDA boundaries and BMP locations.

---

---

---

---

17. Describe the nature of the stormwater conveyance (drainage) system (e.g., pipe, culvert, channel, ditch, swale, sheet flow). If available, provide a map of the system depicting TDA boundaries.

---

---

---

---

18. Will the project require construction of a new stormwater outfall structure or a new point of discharge to any water body? ☐ Yes ☐ No

If *yes*, identify the receiving water body, and describe areas of permanent and temporary clearing or grading, types of vegetation to be removed, amount of riprap, diameter of outfall pipe(s), and all maintenance/access roads to be constructed. If available, provide a map of outfall locations.

---

---

---



---

---

19. If the project is not infiltrating all of the runoff from the new impervious surface and is unable to provide the required runoff treatment or flow control for the entire new impervious surface, explain why not. Documentation should include a completed copy of the *Engineering and Economic Feasibility (EEF) Evaluation Checklist* (Appendix [2A](#)).

---

---

---

---

20. What stormwater management design standards were applied?

- ☐ WSDOT *Highway Runoff Manual*, version \_\_\_\_\_  
(1995, 2004, 2006, etc.)
- ☐ Ecology's *Stormwater Management Manual(s)*, version \_\_\_\_\_  
(2001, 2005 Western Washington; 2004 Eastern Washington, etc.)
- ☐ Other: \_\_\_\_\_
- ☐ Not Applicable

Prepared by \_\_\_\_\_ Phone \_\_\_\_\_ Date \_\_\_\_\_

Project Engineer \_\_\_\_\_ Office Location \_\_\_\_\_

